

ANSWER 98 OF 321 CA COPYRIGHT 2004 ACS on STN
132:24218 CA
Entered STN: 07 Jan 2000
Multipurpose thermal-insulating waterproofing materials
Wan, Qihong
Peop. Rep. China
Faming.Zhuanli Shengqing Gongkai Shuomingshu, 4 pp.
CODEN: CNXXEV
Patent
Chinese
ICM C09K003-00
ICS C09K021-00
47-9 (Apparatus and Plant Equipment)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1160070	A	19970924	CN 1996-121432	19961209
PRAI	CN 1996-121432		19961209		

AB The title materials are composed of magnesium oxide powder(MgO .gtoreq.50%) or alumina powder(Al2O3 .gtoreq.60%) 40-70; high-alumina cement 8-18, refractory clay 10-25, fly ash 4-13, CaCO3 2-5, and Na fluorosilicate 1-5 wt.%. Neutral water glass is used as a binder.

ST thermal insulation waterproofing material

IT Ashes (residues)
(fly; in multipurpose thermal-insulating waterproofing materials)

IT Cement (construction material)
(high-alumina; in multipurpose thermal-insulating waterproofing materials)

IT Thermal insulators
(multipurpose thermal-insulating waterproofin

L5 ANSWER 122 OF 575 CA COPYRIGHT 2004 ACS on STN
AN 132:211720 CA
ED Entered STN: 07 Apr 2000
TI Manufacture of light-weight hollow wallboard with high strength and low production cost
IN Wan, Yunzhong
PA Loading and Unloading Service Co., Neijiang Vehicle Section, Peop. Rep. China
SO Faming Zhanli Shenqing Gongkai Shuomingshu, 4 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
IC ICM C04B020-00
CC 58-4 (Cement, Concrete, and Related Building Materials)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1178202	A	19980408	CN 1997-107756	19971103
PRAI	CN 1997-107756		19971103		

AB The wallboard is prep'd. from cement 45-55, expanded material 10-15, fly ash 30-35, gypsum 4-7, water 40-55 wt.%, and glass fiber. The manuf. process comprises: mixing cement with gypsum and fly ash, adding expanded material under stirring, mixing with water to obtain a micro-foamed slurry (450-560 kg/m³), pouring the slurry into a mold, laying a layer of glass fiber, putting a mold core into the mold, adding slurry to 2/3 designed thickness, laying another layer of glass fiber, adding slurry to designed thickness, settling for 1-1.5 h, removing the mold core, de-molding after 4 h, and curing. Preferably, the expanded material is expanded vermiculite or perlite;.

ST light wt hollow wallboard strength prodn cost; cement light wt hollow wallboard; expanded vermiculite light wt hollow wallboard; expanded perlite light wt hollow wallboard; fly ash gypsum glass fiber wallboard; gypsum fly ash glass fiber wallboard; glass fiber fly ash gypsum wallboard

IT Perlite
RL: PEP (Physical, engineering or chemical process); TEM (Technica

L5 ANSWER 109 OF 575 CA COPYRIGHT 2004 ACS on STN
AN 133:354110 CA
ED Entered STN: 07 Dec 2000
TI Light-weight composite wall slurry and method for forming
composite wall
IN Tang, Shaolin
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
CODEN: CNXKEV
DT Patent
LA Chinese
IC ICM C04B028-00
ICS C04B028-32; C04B018-08; C04B038-00; E04B002-84
CC 58-3 (Cement, Concrete, and Related Building Materials)
Section cross-reference(s): 38, 57

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1251358	A	20000426	CN 1999-114488	19991015
PRAI	CN 1999-114488		19991015		

AB The slurry comprises cement 60-70, fly
ash 15-25, thermal-insulating light-wt. aggregate 2-10, air
entraining agent 1-5, and additives 2-11 wt.%. Preferably, the
cement is Cl-O-Mg cement, Portland cement, or
Al sulfate cement; the light-wt. aggregate is sawdust, perlite,
or crushed foamed particle; the air entraining agent is rosin thermal
polymer, ligninsulfonate, or bone glue; the additive is high-efficiency
water reducer (DNI or JK series products), early strength agent,
or waterproofing agent (Ca aluminate or ferrous sulfate). The composite
wall is formed by pouring the slurry into closed mold through a
hole on the top of the mold, curing, removing the mold, and filling the
holes with the slurry, where steel wires are used to strengthen
the wall.

ST composite wall slurry light wt; cement flyash sawdust
perlite wall slurry; rosin ligninsulfonate bone glue wall
slurry

IT Sawdust
(aggregate, slurry comprising; light-wt. composite wall